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### 1 [Modeling of discrete event systems: A holistic and incremental approach using Petri nets](#)

[Carmen-Veronica Bobeanu](#), [Eugene J. H. Kerckhoffs](#), [Hendrik Van Landeghem](#)

 October **Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 14 Issue 4 2004

**Publisher:** ACM [Request Permissions](#)

 Full text available: [Pdf](#) (618.20 KB) [Additional Information: full citation, abstract, references, cited by, index terms](#)
**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 86, Downloads (Overall): 1218, Citation Count: 1

In this article, the authors provide an alternative view on Petri nets modeling of discrete event systems. The proposed modeling procedure follows the Systems Specification guidelines underlying the well-known DEVS modeling formalism. The authors' endeavour ...

**Keywords:** Algebraic structures, DEVS, Petri nets, experimental frame, structural modeling

### 2 [Boosting margin based distance functions for clustering](#)

[Tomer Hertz](#), [Aharon Bar-Hillel](#), [Daphna Weinshall](#)

 July **ICML '04: Proceedings of the twenty-first international conference on Machine learning** 2004

**Publisher:** ACM

 Full text available: [Pdf](#) (181.49 KB) [Additional Information: full citation, abstract, references, cited by](#)
**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 44, Downloads (Overall): 430, Citation Count: 10

The performance of graph based clustering methods critically depends on the quality of the distance function used to compute similarities between pairs of neighboring nodes. In this paper we learn distance functions by training binary classifiers with ...

### 3 [A web of concepts](#)

[Nitesh Dalvi](#), [Ravi Kumar](#), [Bo Pang](#), [Raghu Ramakrishnan](#), [Andrew Tomkins](#), [Philip Bohannon](#), [Sathya Keerthi](#), [Srujana Merugu](#)

 June **PODS '09: Proceedings of the twenty-eighth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems** 2009

**Publisher:** ACM [Request Permissions](#)

 Full text available: [Pdf](#) (455.87 KB) [Additional Information: full citation, abstract, references, index terms](#)
**Bibliometrics:** Downloads (6 Weeks): 82, Downloads (12 Months): 323, Downloads (Overall): 323, Citation Count: 0

We make the case for developing a *web of concepts* by starting with the current view of web (comprised of hyperlinked pages, or documents, each seen as a bag of words), extracting concept-centric metadata, and stitching it together to create a ...

**Keywords:** concepts, extraction, ranking, selection

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4 [Trends, similarities, and differences in the usage of teen and senior public online newsgroups](#)



[Panayiotis Zaphiris](#), [Rifaht Sarwar](#)

September 2006 **Transactions on Computer-Human Interaction (TOCHI)**, Volume 13 Issue 3

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (1.16 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 30, Downloads (12 Months): 204, Downloads (Overall): 901, Citation Count: 7

This article presents an analysis of the human to human interactions in two public online newsgroups, one targeting the young generation and the other the elderly. The main goal of this study was to establish a better understanding of similarities and ...

**Keywords:** Human-computer interaction, aging, online communities, social network analysis

5 [Data integration with uncertainty](#)

[Xin Luna Dong](#), [Alon Halevy](#), [Cong Yu](#)

April 2009 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 18 Issue 2

**Publisher:** Springer-Verlag New York, Inc.

Full text available: [Pdf](#) (1.70 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 193, Downloads (Overall): 193, Citation Count: 0

This paper reports our first set of results on managing uncertainty in data integration. We posit that data-integration systems need to handle uncertainty at three levels and do so in a principled fashion. First, the semantic mappings between the data ...

**Keywords:** Data exchange, Data integration, Probabilistic schema mapping

6 [Abstract computability and algebraic specification](#)



[J. V. Tucker](#), [J. L. Zucker](#)

April 2002 **Transactions on Computational Logic (TOCL)**, Volume 3 Issue 2

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (494.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 97, Downloads (Overall): 1942, Citation Count: 2

Abstract computable functions are defined by abstract finite deterministic algorithms on many-sorted algebras. We show that there exist finite universal algebraic specifications that specify uniquely (up to isomorphism) (i) all abstract computable ...

**Keywords:** Abstract computability, algebraic specification, computable analysis, conditional equations, equational logic, metric algebras, topological algebras

7 [Towards support for design description languages in EDA framework](#)

[Olav Schettler](#), [Susanne Heymann](#)

November 1994 **ICCAD '94: Proceedings of the 1994 IEEE/ACM international conference on Computer-aided design**

**Publisher:** IEEE Computer Society Press

Full text available: [Pdf](#) (666.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 5, Downloads (Overall): 76, Citation Count: 1

We report on a new framework service for design tool encapsulation, based on an information model for design management. The new service uses generated language processors that perform import and export of design files to and from a design management ...

8 [Applying Model-Driven Development to Pervasive System Engineering](#)

[Huy N. Pham](#), [Qusay H. Mahmoud](#), [Alexander Ferworn](#), [Alireza Sadeghian](#)

May **SEPCASE '07: Proceedings of the 1st International Workshop on Software Engineering for Pervasive Computing Applications, Systems, and Environments**

**Publisher:** IEEE Computer Society

Full text available:  [Pdf](#) (337.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 150, Downloads (Overall): 419, Citation Count: 0

This paper provides an overview of modeldriven software development methodologies and argues that they are well-suited for the purpose of pervasive software development. It also surveys some of the most notable model-driven pervasive software development ...

9 [An Integrated Approach for Modeling Learning Patterns of Students in Web-Based Instruction: A Cognitive Style Perspective](#)



[Sherry Y. Chen](#), [Xiaohui Liu](#)

May **Transactions on Computer-Human Interaction (TOCHI)**, Volume 15 Issue 1  
2008

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (1.39 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 44, Downloads (12 Months): 466, Downloads (Overall): 902, Citation Count: 0

Web-based instruction (WBI) programs, which have been increasingly developed in educational settings, are used by diverse learners. Therefore, individual differences are key factors for the development of WBI programs. Among various dimensions of individual ...

**Keywords:** Cognitive style, Web-based instruction, data mining, learning patterns

10 [How Well Can Simple Metrics Represent the Performance of HPC Applications?](#)

[Laura C. Carrington](#), [Michael Laurenzano](#), [Allan Snaveley](#), [Roy L. Campbell](#), [Larry P. Davis](#)

November 2005 **SC '05: Proceedings of the 2005 ACM/IEEE conference on Supercomputing**

**Publisher:** IEEE Computer Society

Full text available:  [Pdf](#) (412.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 50, Downloads (Overall): 306, Citation Count: 5

In this paper, a systematic study of the effects of complexity of prediction methodology on its accuracy for a set of real applications on a variety of HPC systems is performed. Results indicate that the use of any single, simple synthetic metric to ...

11 [Conversing with the user based on eye-gaze patterns](#)



[Pernilla Qvarfordt](#), [Shumin Zhai](#)

April **CHI '05: Proceedings of the SIGCHI conference on Human factors in computing systems**  
2005

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (944.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 118, Downloads (Overall): 886, Citation Count: 15

Motivated by and grounded in observations of eye-gaze patterns in human-human dialogue, this study explores using eye-gaze patterns in managing human-computer dialogue. We developed an interactive system, iTourist, for city trip planning, which encapsulated ...

**Keywords:** dialogue systems, eye tracking, interest detection, multimodal interaction

## 12 [Experimental study on evaluation of multidimensional information visualization techniques](#)



Raquei M. Pillat, Eliane R. A. Vallati, Carla M. D. S. Freitas

October 2005 **CLIH C '05: Proceedings of the 2005 Latin American conference on Human-computer interaction**

**Publisher:** ACM

Full text available: Pdf (1.08 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 146, Downloads (Overall): 879, Citation Count: 3

Information visualization systems often present usability problems mainly because many of these tools are not submitted to complete evaluation studies. This paper presents an experimental study based on tests with users to evaluate two multidimensional ...

**Keywords:** information visualization, multidimensional visualization, usability evaluation

## 13 [IPNL: A NAT-extended internet architecture](#)



Paul Francis, Ramakrishna Gummadi

August 2001 **SIGCOMM '01: Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications**

**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (241.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 88, Downloads (Overall): 2158, Citation Count: 26

This paper presents and analyzes IPNL (for IP Next Layer), a NAT-extended Internet protocol architecture designed to scalably solve the address depletion problem of IPv4. A NAT-extended architecture is one where only hosts and NAT boxes are modified. ...

Also published in:

October 2001 **SIGCOMM Computer Communication Review** Volume 31 Issue 4

## 14 [interactions: Volume 15 Issue 3](#)



May 2008

interactions

**Publisher:** ACM

Full text available: Digital Edition , Pdf (7.95 MB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 130, Downloads (12 Months): 827, Downloads (Overall): 1448, Citation Count: 0

## 15 [A game loop architecture for the GPU used as a math coprocessor in real-time applications](#)



Marcelo P. M. Zamith, Esteban W. G. Clua, Aura Conci, Anselmo Montenegro, Regina C. P. Leal-Toledo, Paulo A. Pagliosa, Luis Valente, Bruno Feij

October 2008 **Computers in Entertainment ( CIE )** , Volume 6 Issue 3

**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (859.98 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 42, Downloads (12 Months): 350, Downloads (Overall): 350, Citation Count: 1

This article concerns the use of a graphics processor unit (GPU) as a math co-processor in real-time applications in special games and physics simulations. To validate this approach, we present a new game loop architecture that employs GPUs for general-purpose ...



**Keywords:** GPGPU, Game loop, real-time physics

**16** [Extracting semantic relations from query logs](#)

 [Ricardo Baeza-Yates, Alessandro Tiberi](#)

August **KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery 2007 and data mining**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Mov](#) (14:6 MIN),  [Pdf](#) (1.33 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 98, Downloads (12 Months): 588, Downloads (Overall): 1461, Citation Count: 23

In this paper we study a large query log of more than twenty million queries with the goal of extracting the semantic relations that are implicitly captured in the actions of users submitting queries and clicking answers. Previous query log analyses ...

**Keywords:** graph mining, query log analysis

**17** [ACM SIGAda Ada Letters: Volume XXVII Issue 1](#)

 April 2007 SIGAda Ada Letters

**Publisher:** ACM



Additional Information: [full citation](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

**18** [Communications of the ACM: Volume 51 Issue 12](#)

 December 2008 Communications of the ACM

**Publisher:** ACM

Full text available:  [Digital Edition](#),  [Pdf](#) (6.91 MB)

Additional Information: [full citation](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 605, Downloads (12 Months): 4325, Downloads (Overall): 4325, Citation Count: 0

**19** [Linux local and wide area network adapter support: \(From 10 Mbps to Gigabit Ethernet, Token Ring, Frame Relay, and Slow Packet\)](#)

[Daniel Haj-Carrere](#)

March **International Journal of Network Management**, Volume 10 Issue 2  
2000


**Publisher:** John Wiley & Sons, Inc.

Full text available:  [Pdf](#) (336.93 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 6, Downloads (Overall): 466, Citation Count: 0

**20** [Implementing access control to people location information](#)

 [Urs Hengartner, Peter Steenkiste](#)

June **SACMAT '04: Proceedings of the ninth ACM symposium on Access control models and technologies 2004**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (164.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 43, Downloads (Overall): 1229, Citation Count: 5

Ubiquitous computing uses a variety of information for which access needs to be controlled. For instance, a person's current location is a sensitive piece of information, which only authorized entities should be able to learn. Several challenges arise ...




**Keywords:** certificates, delegation, dsa, location, rsa, spki/sdsi, trust

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